



# **GCCS-A Support for Blue Force Tracking**

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# Purpose

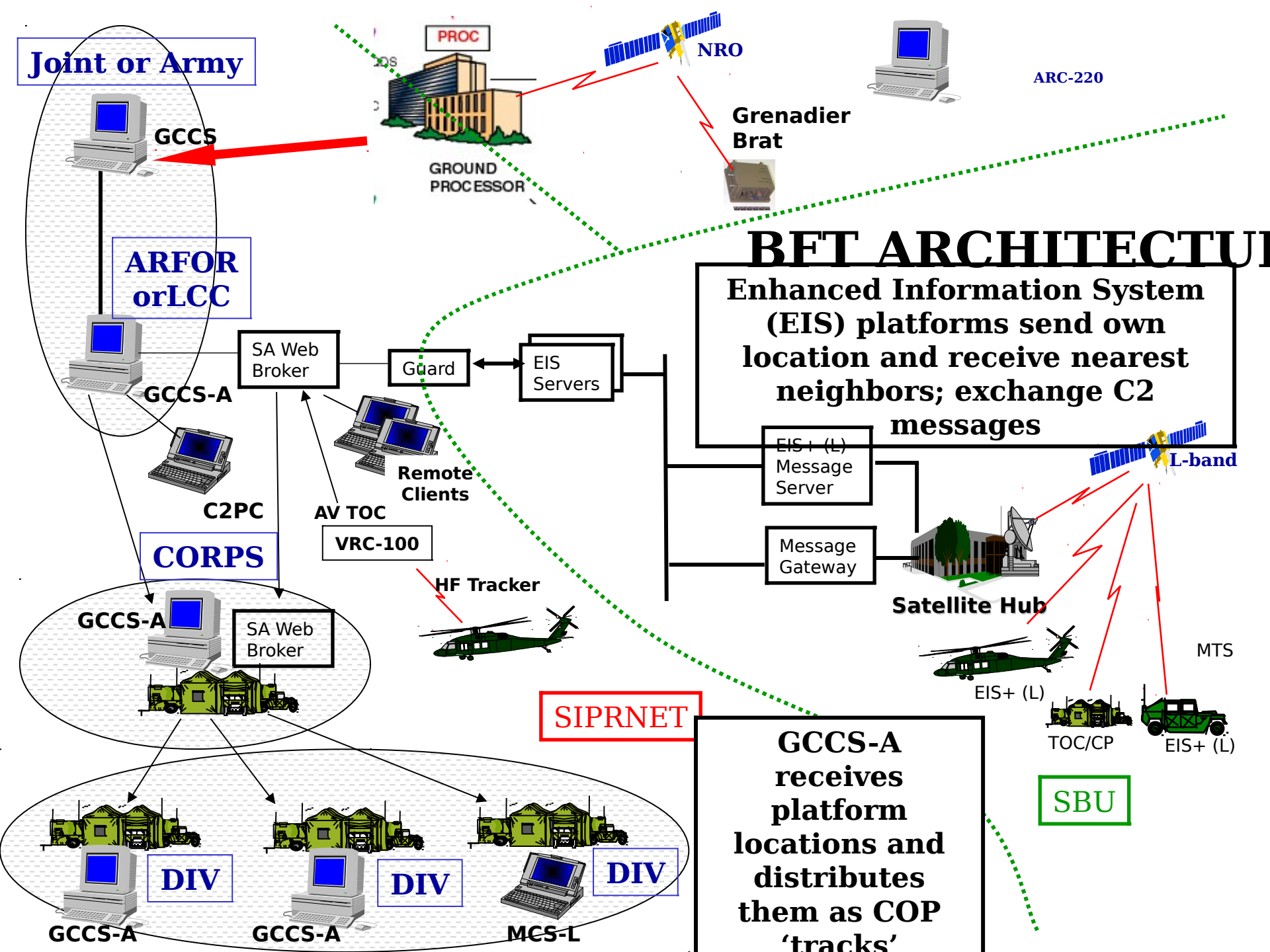
- **Describe organization, schedule, and architecture overviews of the two Blue Force Tracking (BFT) initiatives**
- **Summarize GCCS-A efforts to support BFT and related Army responsibilities for C2 in country**
- **Encourage discussion of potential implementation pitfalls**



# Outline

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- **BFT Overview**
- **Organizational Structures: Balkans and Operation Enduring Freedom (OEF)**
- **Design/Architecture Ground Rules**
- **BDI Schedule, EIS+ Interface Design, BDI Architecture, and Tasks**
- **OEF C4I Architecture and Schedule**
- **PM GCCS-A Task Summary**





# BALKAN DIGITIZATION INITIATIVE BOSNIA VEHICLE CONFIGURATION

**ENHANCED INFORMATION  
SYSTEM  
M-1114 BASED  
(UP ARMOR HUMMV)**

**Antenna Control  
Unit**

**Monitor  
Keyboard Unit**

**Map Based  
Display**



**MILITARY GPS SOURCE  
OMNITRACS TRANSMISSION PATH  
FIELDWORKS 2000 RUGGEDIZED LAPTOP  
FBCB2 V3.1**



# Assumptions/Ground Rules for Initial Phases

- **GCCS-A displays and distributes as COP tracks any platforms and unit locations received from the EIS Data Broker**
  - **Army BFT platforms, possibly unit locations, and Grenadier Brat are received and displayed**
  - **BFT platforms and units in COP may need to be reported to MCS-L via OTH Gold JUNIT/JPOS messages; Platforms will not be reported to any other Army systems**
  - **Reports of other Army units, via MCS-L, etc., will be transferred to COP as units**
  - **Joint ground units will be reported to MCS-L, etc.**
- **BFT platforms will be displayed as unit symbols (rectangle) in the COP, not as platform or equipment**
- **“No new software” policy applies primarily to existing ABCS systems**



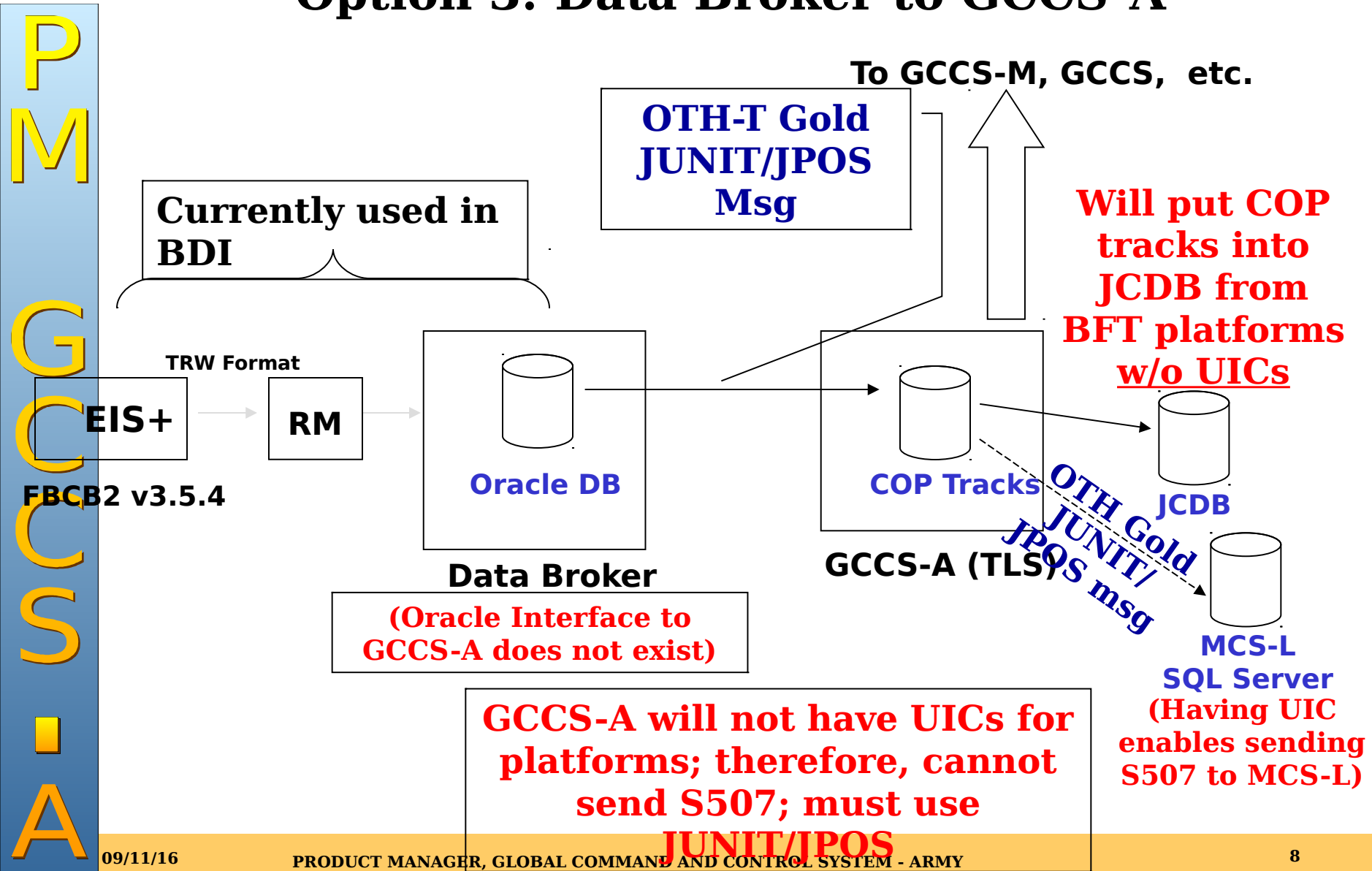
# Assumptions/Ground Rules for Later Phases

- Sending unit locations out to EIS platforms “Two-way” will require further design; Initial interface with EIS platforms will be one-way from Data Broker into GCCS-A



# EIS+ to GCCS-A Interface (BDI & OEF)

## Option 3: Data Broker to GCCS-A





# **Balkans Digitization Initiative (BDI)**

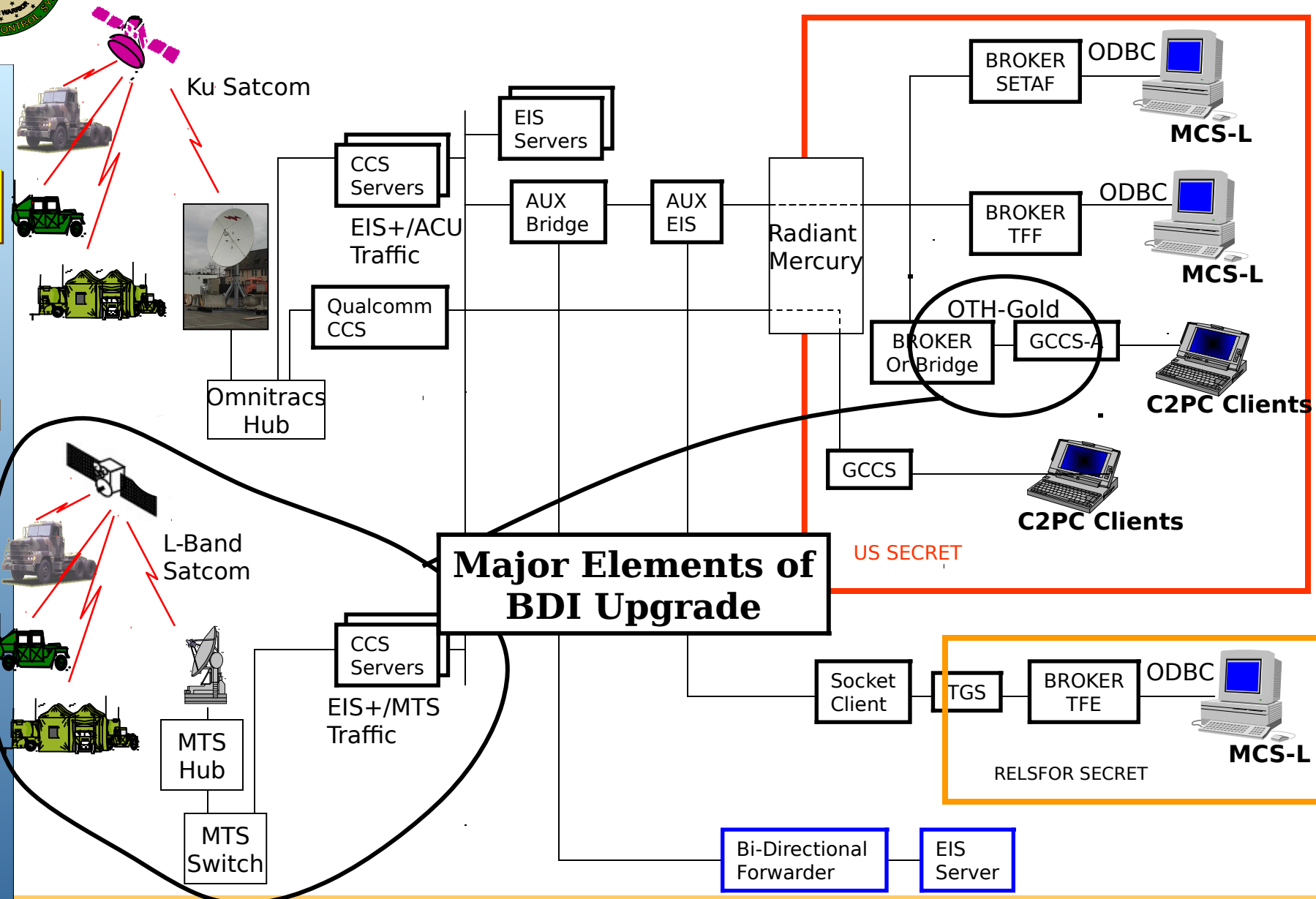
## **Upgrade Overview**

- **BDI Background:** In 1999, USAREUR DCSOPS was the functional proponent for the BDI equipment to be installed by PEO C3T to enable visibility of patrols in Bosnia and Kosovo
- **BDI Upgrade Purpose:** upgrade version of FBCB2 software already installed in theater; add L-band satellite coverage for SETAF
- **USAREUR BDI POC:** MAJ Rich McClintock
- **PEO C3T Project Lead:** LTC Tony Potts, PMO Army Aviation Command and Control System (A2C2S)
- **PEO C3T Project Support:** LTC John Bullington, PMO Force XXI Battle Command Brigade and Below (FBCB2)



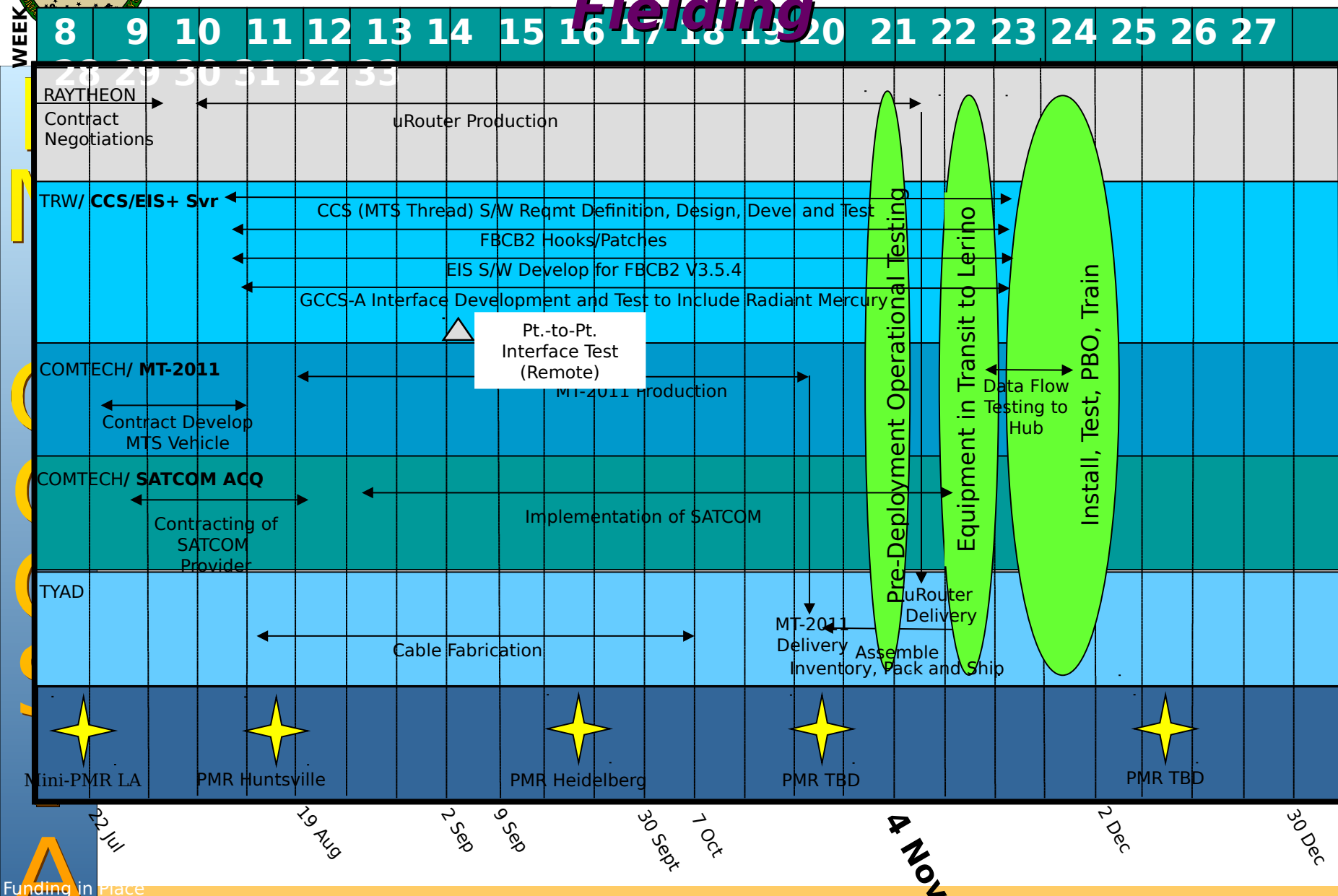
# Draft EIS+ BDI Upgrade Architecture

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# BDI EIS+ Macro Schedule SETAF Fielding





# Operation Enduring Freedom (OEF) C4I Overview

- **OEF C4I Purpose: Provide BFT to operational forces**
- **OEF C4I Organization:**
  - **COL Peter Fuller, Team Leader, assigned to HQDA G-6**
  - **COL Nick Justice, System Integration IPT Leader, PM FBCB2**
  - **ABCS Interoperability IPT Leader, COL Connelly/MAJ Cellini, TRADOC/PEO C3T**
  - **Other IPTs: Operations, Architecture, Acquisition**

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# OEF C4I Architecture and Schedule

- **Architecture more complicated to distribute COP tracks to major subordinate commands in two regions**
- **Schedule - tighter than BDI upgrade**

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# GCCS-A Development and Installation Task Summary

- Review Theater/Command architecture C2 requirements and design
- Ensure unit, symbology, and other data for initial units/platforms will be correct and available to all needed databases in the Theater/Commands
- Test interface from Data Broker to GCCS-A
- Test major OEF C4I architecture elements: Radiant Mercury, Data Broker, GCCS-A, and MCS-L
- Install software and participate in Pre-deployment Operational Test at CTSF
- Support BFT installation with documentation and already installed GCCS-A
- Work with USAREUR and ARCENT to architect proper distribution of COP tracks among major subordinate commands, Joint headquarters, and other Services

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